



1631

Patent
Attorney Docket No. 54318.8001.US01

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11-27-02

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C., 20231, on:

Date: November 18, 2002

By: Miguel Grau

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: DEBE, Derek A. *et al.*
APPLICATION No.: 09/905,176
FILED: July 12, 2001
FOR: METHOD FOR DETERMINING THREE-
DIMENSIONAL PROTEIN STRUCTURE FROM
PRIMARY PROTEIN SEQUENCE

EXAMINER: BORIN, MICHAEL
ART UNIT: 1631

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INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

In accordance with 37 CFR §§ 1.97 and 1.98, the items identified in this Information Disclosure Statement ("IDS") are brought to the attention of the Office. The items are listed on the attached Form PTO-1449 and copies are enclosed for the convenience of the Examiner.

The items identified in this IDS may or may not be "material" pursuant to 37 CFR § 1.56. The submission thereof by Applicant is not to be construed as an admission that any such patent, publication or other information referred to therein is material or considered to be material (37 CFR § 1.97(h)), or even qualifies as "prior art" under 35 USC § 102 with respect to this invention unless specifically designated by Applicant as such.

INFORMATION DISCLOSURE STATEMENT FILING PROVISION:

This IDS is believed to be timely in that it is being submitted under 37 CFR § 1.97(b), that is (1) within three months of the filing date of the application, which is not a continued prosecution application filed under § 1.53(d); or (2) within three months of entry of the national stage as set forth in 37 CFR § 1.491; or (3) before the mailing of a first Office action on the merits; or (4) before the

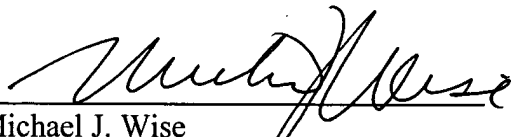
mailing of a first Office action after filing a request for continued examination under § 1.114. Thus, no fee is required.

However, if the undersigned is in error in this regard, Applicant respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable, and charge the fee due under 37 CFR §1.17(p) to the deposit account referenced below.

The Commissioner is authorized to charge any fees required by the filing of these papers, and to credit any overpayment to Deposit Account No. **50-0665**.

Respectfully submitted,
Perkins Coie LLP

Dated: 11/18/02

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FORM PTO-1449 LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 54318.8001.USC	SERIAL NO. 09/905,176
	APPLICANT: DEBE, Derek A.	
	FILING DATE: July 12, 2001	GROUP: 1645

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE	
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO		
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	AJ							
	AK							

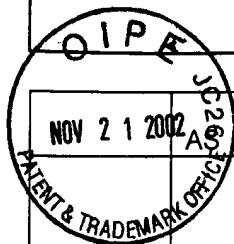
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)	
AL	<i>Altschul, F., et al.</i> , "Basic Local Alignment Search Tool", J. Mol. Biol., Vol. 215 (1990), pp. 403-410
AM	<i>Altschul, F., et al.</i> , "Gapped BLAST and PSI-BLAST: A new generation of protein database search programs", Nuc. Acids Res., Vol. 25, No. 17 (1997), pp. 3389-3402
AN	<i>Aszodi, A., et al.</i> "Homology modelling by distance geometry", Folding & Design Struct., Vol. 1 (1996), pp. 325-334
AO	<i>Berman, H., et al.</i> , "The Protein Data Bank", Nuc. Acids Res., Vol. 28, No. 1 (2000), pp. 235-242
AP	<i>Bernstein, F.C., et al.</i> , "The Protein Data Bank: A Computer-based Archival File for Macromolecular Structures", J. Mol. Biol., Vol. 112 (1977), pp. 535-542
AQ	<i>Blundell, T.L., et al.</i> , "Knowledge-based prediction of protein structures and the design of novel molecules", Nature, Vol. 326 (1987), pp. 347-352
AR	<i>Bowie, J., et al.</i> , "A Method to Identify Protein Sequences That Fold into a Known Three-Dimensional Structure", Science, Vol. 253 (1991), pp. 164-170

[54318-8001/LA023020.075]

EXAMINER:	DATE CONSIDERED:
EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant	

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AT	Brenner, S., et al., "Population statistics of protein structures: lessons from structural classifications", Current Opinions on Structural Biology, Vol. 7 (1997), pp. 369-376
AU	Brocklehurst, S., et al., "Prediction of the three-dimensional structures of the biotinylated domain from yeast pyruvate carboxylase and of the lipoylated H-protein from the pea leaf glycine cleavage system: A new automated method for prediction of protein tertiary structure", Protein Science, Vol. 2 (1993), 626-639
AV	Browne, W.J., et al., "A Possible Three-dimensional Structure of Bovine α-Lactalbumin based on that of Hen's Egg-White Lysozyme", J. Mol. Biol., Vol. 42 (1969), pp. 65-86
AW	Burley, S., et al., "Structural genomics: beyond the Human Genome Project", Nature Gen., Vol. 23 (1999), pp. 151-157
AX	Classens, M., et al., "Modelling the polypeptide backbone with 'spare parts' from known protein structures", Prot. Eng., Vol. 2, No. 5 (1989), pp. 335-345
AY	Dayhoff, M.O., et al., "A Model of Evolutionary Change in Proteins", Atlas of Prot. Seq. & Struct., Vol. 5, Supp. 3 (1979), pp. 345-352
AZ	Fischer, D., et al., "Protein fold recognition using sequence-derived predictions", Prot. Science, Vol. 5 (1996), pp. 947-955
BA	Gibrat, J., et al., "Surprising similarities in structure comparison", Current Opinions on Structural Biology, Vol. 7 (1996), pp. 377-385
BB	Gotoh, O., "An Improved Algorithm for Matching Biological Sequences", J. Mol. Biol., Vol. 162 (1982), pp. 705-708
BC	Greer, J., "Comparative Modeling Methods: Application to the Family of the Mammalian Serine Proteases", Proteins: Structure, Function & Genetics, Vol. 7 (1990), pp. 317-334
BD	Gribskov, M., et al., "Profile Analysis", Methods of Enzymology, Vol. 183 (1990), pp. 146-159
BE	Gribskov, M., et al., "Profile analysis: Detection of distantly related proteins", Proc. Natl. Acad. Sci. USA, Vol. 84 (1987), pp. 4355-4358
BF	Gribskov, M., et al., "Detection of Protein Structural Features with Profile Analysis", Techniques In Protein Chemistry (1989), pp. 108-117
BG	Havel, T.F., et al., "A New Method for Building Protein Conformations from Sequence Alignments with Homologues of Known Structure", J. Mol. Biol., Vol. 217 (1991), pp. 1-7
BH	Heinkoff, S., et al., "Amino acid substitution matrices from protein blocks", Proc. Natl. Acad. Sci. USA, Vol. 89 (1992), pp. 10915-10919
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BJ	Holm, L., et al., "Mapping the Protein Universe", Science, Vol. 273, No. 5275 (1996), pp. 595-602
BK	Jones, T.A., et al., "Using known substructures in protein model building and crystallography", EMBO J., Vol. 5, No. (1986), pp. 819-822
BL	Karplus, K., et al., "Hidden Markov models for detecting remote protein homologies", Bioinformatics, Vol. 14, No. 10 (1998), pp. 846-856
BM	Levitt, M., "Accurate Modeling of Protein Conformation by Automatic Segment Matching", J. Mol. Biol., Vol. 226 (1992), pp. 507-533
BN	Landahl, E., et al., "Identification of Related Proteins on Family, Superfamily and Fold Level", J. Mol. Biol., Vol. 295 (2000), pp. 613-625
	Murzin, A., et al., "SCOP: A Structural Classification of Proteins Database for the Investigation of Sequences and Structures", J. Mol. Biol., Vol. 247 (1995), pp. 536-540

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	BQ	Needleman, S., et al., "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins", J. Mol. Biol., Vol. 48 (1970), pp. 443-453
	BP	Rost, B., et al., "Protein Fold Recognition by Prediction-based Threading", J. Mol. Biol., Vol. 270 (1997), pp. 471-480
	BQ	Sali, A., et al., "Comparative Protein Modelling by Satisfaction of Spatial Restraints", J. Mol. Biol., Vol. 234 (1993), pp. 779-815
	BR	Sánchez, R., et al., "ModBase: A database of comparative protein structure models", Bioinformatics, Vol. 15, No. 12 (1989), pp. 1060-1061
	BS	Sánchez, R., et al., "Large-scale protein structure modeling of the <i>Saccharomyces cerevisiae</i> genome", Proc. Natl. Acad. Sci. USA, Vol. 95 (1998), pp. 13597-13602
	BT	Shindyalov, I., et al., "Protein structure alignment by incremental combinatorial extension (CE) of the optimal path", Prot. Eng., Vol. 11 (1998), pp. 739-747
	BU	Sippl, M.J., "Recognition of Errors in Three-Dimensional Structures of Proteins", Proteins: Struct, Function and Genetics, Vol. 17 (1993), pp. 355-362
	BV	Smith, T., et al., "Comparison of Biosequences", Advances in Applied Math., Vol. 2, No. 4 (1981), pp. 482-489
	BW	Smith, T., et al., "Identification of Common Molecular Subsequences", J. Mol. Biol., Vol. 147 (1981), pp. 195-197
	BX	Srinivasan, N., et al., "An evaluation of the performance of an automated procedure for comparative modeling of protein tertiary structure", Prot. Eng., Vol. 6, No. 5 (1993), pp. 501-512
	BY	Teichmann, S., et al., "Advances in structural genomics", Current Opinions on Structural Biology, Vol. 9 (1999), pp. 390-399
	BZ	Thompson, J.D., et al., "CLUSTAL W: improving the sensitivity of progressive multiple sequence alignment through sequence weighting, position-specific gap penalties and weight matrix choice", Nuc. Acids Res., Vol. 22, No. 22 (1994), pp. 4673-4680
	CA	Unger, R., et al., "A 3D Building Blocks Approach to Analyzing and Predicting Structure of Proteins", Proteins: Structure, Function, and Genetics, Vol. 5 (1989), pp. 355-373
	CB	Van Holde, K.E., "Fundamentals of X-Ray Diffraction", X-Ray Diffraction, 11 (1971), pp. 221-239
	CC	Waterman, M.S., et al., "A New Algorithm for Best Subsequence Alignments with Application to tRNA-rRNA Comparisons", J. Mol. Biol., Vol. 197 (1987), pp. 723-728

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